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IEE CNF	IEE Conference Proceeding		Radar Conference, 2000. The Record of the IEEE 2000 International 7-12 May 2000 Page(s):128 - 133			
IEEE STD	IEEE Standard		Digital Object Identifier 10.1109/RADAR.2000.851817			
			AbstractPlus Full Text: PDF(476 KB) IEEE CNF			
			2. Radar target recognition by fuzzy logic Colin, N.; Moruzzis, M.; Radar Conference, 1997., IEEE National 13-15 May 1997 Page(s):257 - 262 Digital Object Identifier 10.1109/NRC.1997.588316			
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			 Computer simulation of target backscattering as element of perspective radar des Leshchenko, S.P.; Orlenko, V.M.; Shirman, Y.D.; Antenna Theory and Techniques, 2003. IVth International Conference on Volume 1, 9-12 Sept. 2003 Page(s):389 - 393 vol.1 Digital Object Identifier 10.1109/ICATT.2003.1239239 			
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			4. A novel subgridding scheme based on a combination of the finite-element and fini difference time-domain methods Monorchio, A.; Mittra, R.; Antennas and Propagation, IEEE Transactions on Volume 46, Issue 9, Sept. 1998 Page(s):1391 - 1393 Digital Object Identifier 10.1109/8.719987			
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			Systems, Man and Cybernetics, Part A, IEEE Transactions on Volume 33, Issue 1, Jan. 2003 Page(s):52 - 57 Digital Object Identifier 10.1109/TSMCA.2003.808253			
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L2	638	(helicopter\$1) with (class\$ or ident\$)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2005/07/27 08:52
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L7	30	("2602836" "2922123" "3119999" "3140486" "3404399" "3480884" "3898658" "3924182" "3984802" "4053891" "4106014").PN. OR ("4603331"). URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/07/27 10:18
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L10	.424427	helicopter\$1 or rotor\$1	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2005/07/27 10:33

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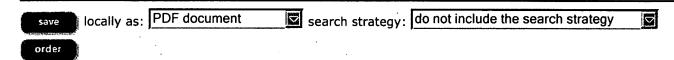




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8256012, B2005-02-7950-053; 20050123.

Title

ISAR imaging of flying helicopters at millimeter-wave frequencies.

Author(s)

Hagelen-M; Wahlen-A; Brehm-T.

Author affiliation

Dept Millimeterwave & Seeker Radar, FGAN Res Inst for High-Frequency Phys & Radar Technique, Wachtberg, Germany.

Source

Conference Proceedings. 1st European Radar Conference, Amsterdam, Netherlands, 14-15 Oct. 2004. In: p.265-8, 2004.

Publication year

2004.

Language

EN.

Publication type

CPP Conference Paper.

Treatment codes

P Practical.

Abstract

The advantages of radar systems operating at millimeter-wave frequencies can be used for imaging flying objects, e.g. helicopters, by means of the ISAR principle. Using this technique, it is possible to deliver a data base, which contains high resolution scatterer distributions of different targets and for different **aspect angles**. Under civil war conditions, this data can be compared with ISAR images of approaching targets in order to distinguish between friendly and threat vehicles. (10 refs).

Descriptors

<u>backscatter</u>; <u>helicopters</u>; <u>image-classification</u>; <u>image-resolution</u>; <u>millimetre-wave-imaging</u>; <u>radar-imaging</u>; <u>synthetic-aperture-radar</u>.

Keywords

target **classification**; mm wave ISAR imaging; flying **helicopter** imaging; flying object imaging; high resolution target scatterer distributions; civil war conditions; friendly threat vehicle discrimination; 10 GHz; 35 GHz; 94 GHz; 800 MHz.

Classification codes

B7950	(Military radar, detection and tracking systems).
B6135	(Optical, image and video signal processing).
B6320	(Radar equipment, systems and applications).

Numerical indexing

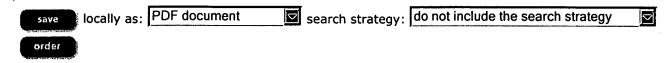
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frequency: 1.0E+10 Hz, 3.5E+10 Hz, 9.4E+10 Hz.

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IEE JNL IEE Journal or Magazine IEEE CNF IEEE Conference Proceeding IEE CNF IEE Conference Proceeding IEEE STD IEEE Standard			1. On the scattering mechanism of power lines at millimeter-waves Essen, H.; Boehmsdorff, S.; Biegel, G.; Wahlen, A.; Geoscience and Remote Sensing, IEEE Transactions on Volume 40, Issue 9, Sept. 2002 Page(s):1895 - 1903 Digital Object Identifier 10.1109/TGRS.2002.805144 AbstractPlus References Full Text: PDF(1405 KB) IEEE JNL			
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Preiss, B.; Tollefson, M.; Howard, R.;
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